

Washington State 4-H Fair

WSU Puyallup ❖ 2606 W. Pioneer ❖ Puyallup, WA 98371

Off Season (Oct 1 – Aug 15): 253-445-4630; Fax 253-445-4587
Fair Time (Aug 16-Sept 30): 253-770-5410; Fax: 253-770-5412

Website: <http://4h.wsu.edu/statefair/index.htm>



1.27m(6/09)

TO: Participants: **Robotics In Action**

FROM: Washington State 4-H Fair

SUBJECT: State 4-H Fair Participation Information – 2009

The letter is for all participants in the Robotics in Action activity at the 2009 WA State 4-H Fair. We would appreciate your help showing people what 4-H is all about!

*Before you arrive at Fair, make sure you have complete information about the event that you wish to participate in while you are at the Fair. The State 4-H Fair Premium Book, available at your county County Extension office and on the State 4-H Fair web page at <http://4h.wsu.edu/statefair/index.htm> contains valuable information that will be important for you to know. **Information in this letter will be printed in bold if it is new this year.***

Due to increased security measures, people entering the fairgrounds should expect to be stopped for a security check at the gate; allow extra time.

You may participate in either the 4 hour or the 8-hour robotics activity. Details for your event are listed below.

WA State 4-H Fair Robotics Exhibition

Superintendent - Chelle Herbruger

chelleherbruger@gmail.com

When: Sunday, September 20, 2009 10:00 am - 8:00 pm

Where: 4-H Dog Benching Barn

Who: Any current year 4-H youth member enrolled in Robotics project. Youth will be put into teams when they sign up (by county or club ideally). County pre-qualification is not required

History: Robotics gives 4-H youth an opportunity to understand current global issues and brainstorm realistic solutions while playing with computers and Legos. Youth will display research, programming, and robot ability to complete tasks. In global challenges (First Lego League), robots complete 15+ tasks in 2.5 minutes; and youth present robot design, programming, and project research.

What: A chance for Washington 4-H robotics members to show and share abilities to:
understand the presented problem,
create and prioritize a task lists,
research and brainstorm solutions,
design, build, program, test & prove their robot's ability to do missions,
present "research and development" to others, and
'debrief' with others to share learning experiences.
Participants must bring their own computer, robotics kit, and power strip.

Schedule: **10 am** Pit area opens for set up by teams.
10:30 Sign-up and pits open for ALL participants in either exhibition

11 am Themed Robot start

Youth not previously involved at county theme event will participate by

- Preparing a poster on the topic of Transportation
- Building and programming a robot to complete given missions
- Demonstrating robot's ability to complete missions on time (3 tries)
- Completing event in _ hours; will be the last ones to run robots.

Youth involved at a county level theme event will participate by

- Displaying research/poster on Transportation for the day in their pit
- Discuss with judges their research and solution findings
- Discuss their design and programming of robot with judges
- Demonstrating robot's ability to complete missions on time (3 tries)

2-3 pm LUNCH BREAK

2:30 pm All participants must vacate building until 3 pm for judges set-up
Registration table will be at the door for teams who need to sign in

3 pm "ON the SPOT" Robot start

Judges announce Challenge and mission details at 3:05 pm.

Youth have 4 hours to research solution; create poster; design, build, program, test robot to complete missions.

7 pm "ON the SPOT" Timed Run Start

8 pm Break down and clean up of pit areas by all participating youth

Challenges were designed and built by: Sherri Frothingham, Steve Gonvers, and Chelle Herbruger